SEQUENCE LISTING

<110> Kwon, Byoung S.

<120> MURINE 4-1BB GENE

<130> 740.009US1

<140> US 08/012,269
<141> 1993-02-01

<150> US 07/922,996
<151> 1992-07-30

<150> US 07/267,572
<151> 1988-11-07

<160> 13

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 2350
<212> DNA
<213> Mus musculus

<220>
<221> misc_feature
<222> (1)...(2350)
<223> n = A,T,C or G

<400> 1
atgtccatga actgctgagt ggataaacag cacgggatat ctctgtctaa aggaatatta 60
ctacaccagg aaaaggacac attcgacaac aggaaaggag cctgtcacag aaaaccacag 120
tgtcctgtgc atgtgacatt tcgccatggg aaacaactgt tacaacgtgg tggtcattgt 180
gctgctgcta gtgggctgtg agaaggtggg agccgtgcag aactcctgtg ataactgtca 240
gcctggtact ttctgcagaa aatacaatcc agtctgcaag agctgccctc caagtacctt 300
ctccagcata ggtggacagc cgaactgtaa catctgcaga gtgtgtgcag gctatttcag 360
gttcaagaag ttttgctcct ctacccacaa cgcggagtgt gagtgcattg aaggattcca 420
ttgcttgggg ccacagtgca ccagatgtga aaaggactgc aggcctggcc aggagctaac 480
gaagcagggt tgcaaaacct gtagcttggg aacatttaat gaccagaacg gtactggcgt 540
ctgtcgaccc tggacgaact gctctctaga cggaaggtct gtgcttaaga ccgggaccac 600
ggagaaggac gtggtgtgtg gacccccctgt ggtgagcttc tctcccagta ccaccatttc 660
tgtgactcca gagggaggac caggagggca ctccttgcag gtccttacct tgttcctggc 720
gctgacatcg gctttgctgc tggccctgat cttcattact ctcctgttct ctgtgctcaa 780
atggatcagg aaaaaattcc cccacatatt caagcaacca tttaagaaga ccactggagc 840
agctcaagag gaagatgctt gtagctgccg atgtccacag gaagaagaag gaggaggagg 900
aggctatgag ctgtgatgta ctatcctagg agatgtgtgg gccgaaaccg agaagcacta 960
ggaccccacc atcctgtgga acagcacaag caaccccacc accctgttct tacacatcat 1020
cctagatgat gtgtgggcgc gcacctcatc caagtctctt ctaacgctaa catatttgtc 1080
tttacctttt ttaaatcttt ttttaaattt aaatttttatg tgtgtgagtg ttttgcctgc 1140
ctgtatgcac acgtgtgtgt gtgtgtgtgt gtgacactcc tgatgcctga ggaggtcaga 1200
agagaaaggg ttggttccat aagaactgga gttatggatg gctgtgagcc ggnnngatag 1260
gtcgggacgg agacctgtct tcttatttta acgtgactgt ataataaaaa aaaaatgata 1320
tttcgggaat tgtagagatt ctcctgacac ccttctagtt aatgatctaa gaggaattgt 1380
tgatacgtag tatactgtat atgtgtatgt atatgtatat gtatatataa gactctttta 1440
ctgtcaaagt caacctagag tgtctggtta ccaggtcaat tttattggac attttacgtc 1500
acacacacac acacacacac acacacacgt ttatactacg tactgttatc ggtattctac 1560
gtcatataat gggatagggt aaaaggaaac caaagagtga gtgatattat tgtggaggtg 1620

acagactacc ccttctgggt acgtagggac agacctcctt cggactgtct aaaactcccc 1680
ttagaagtct cgtcaagttc ccggacgaag aggacagagg agacacagtc cgaaaagtta 1740
tttttccggc aaatcctttc cctgtttcgt gacactccac cccttgtgga cacttgagtg 1800
tcatccttgc gccggaaggt caggtggtac ccgtctgtag gggcggggag acagagccgc 1860
gggggagcta cgagaatcga ctcacagggc gccccgggct tcgcaaatga aacttttta 1920
atctcacaag tttcgtccgg gctcggcgga cctatggcgt cgatccttat taccttatcc 1980
tggcgccaag ataaaacaac caaaagcctt gactccggta ctaattctcc ctgccggccc 2040
ccgtaagcat aacgcggcga tctccacttt aagaacctgg ccgcgttctg cctggtctcg 2100
ctttcgtaaa cggttcttac aaaagtaatt agttcttgct ttcagcctcc aagcttctgc 2160
tagtctatgg cagcatcaag gctggtattt gctacggctg accgctacgc cgccgcaata 2220
agggtactgg gcggcccgtc gaaggccctt tggtttcaga aacccaaggc ccccctcata 2280
ccaacgtttc gactttgatt cttgccggta cgtggtggtg ggtgccttag ctctttctcg 2340
atagttagac 2350

<210> 2
<211> 256
<212> PRT
<213> Mus musculus

<400> 2
Met Gly Asn Asn Cys Tyr Asn Val Val Val Ile Val Leu Leu Leu Val
 1   5   10   15
Gly Cys Glu Lys Val Gly Ala Val Gln Asn Ser Cys Asp Asn Cys Gln
            20   25   30
Pro Gly Thr Phe Cys Arg Lys Tyr Asn Pro Val Cys Lys Ser Cys Pro
        35   40   45
Pro Ser Thr Phe Ser Ser Ile Gly Gly Gln Pro Asn Cys Asn Ile Cys
    50   55   60
Arg Val Cys Ala Gly Tyr Phe Arg Phe Lys Lys Phe Cys Ser Ser Thr
65   70   75   80
His Asn Ala Glu Cys Glu Cys Ile Glu Gly Phe His Cys Leu Gly Pro
                85   90   95
Gln Cys Thr Arg Cys Glu Lys Asp Cys Arg Pro Gly Gln Glu Leu Thr
            100   105   110
Lys Gln Gly Cys Lys Thr Cys Ser Leu Gly Thr Phe Asn Asp Gln Asn
        115   120   125
Gly Thr Gly Val Cys Arg Pro Trp Thr Asn Cys Ser Leu Asp Gly Arg
    130   135   140
Ser Val Leu Lys Thr Gly Thr Thr Glu Lys Asp Val Val Cys Gly Pro
145   150   155   160
Pro Val Val Ser Phe Ser Pro Ser Thr Thr Ile Ser Val Thr Pro Glu
                165   170   175
Gly Gly Pro Gly Gly His Ser Leu Gln Val Leu Thr Leu Phe Leu Ala
            180   185   190
Leu Thr Ser Ala Leu Leu Leu Ala Leu Ile Phe Ile Thr Leu Leu Phe
        195   200   205
Ser Val Leu Lys Trp Ile Arg Lys Lys Phe Pro His Ile Phe Lys Gln
    210   215   220
Pro Phe Lys Lys Thr Thr Gly Ala Ala Gln Glu Glu Asp Ala Cys Ser
225   230   235   240
Cys Arg Cys Pro Gln Glu Glu Glu Gly Gly Gly Gly Gly Tyr Glu Leu
                245   250   255

<210> 3
<211> 24
<212> PRT
<213> Mus musculus

<400> 3
Cys Arg Val Cys Ala Gly Tyr Phe Arg Phe Lys Lys Phe Cys Ser Ser
1 5 10 15
Thr His Asn Ala Glu Cys Glu Cys
20

<210> 4
<211> 22
<212> PRT
<213> Drosophila

<400> 4
Cys Pro Val Cys Phe Asp Tyr Val Ile Leu Gln Cys Ser Ser Gly His
1 5 10 15
Leu Val Cys Val Ser Cys
20

<210> 5
<211> 26
<212> PRT
<213> Dictyostelium

<400> 5
Cys Pro Ile Cys Phe Glu Phe Ile Tyr Lys Lys Gln Ile Tyr Gln Cys
1 5 10 15
Lys Ser Gly His His Ala Cys Lys Glu Cys
20 25

<210> 6
<211> 6
<212> PRT
<213> Mus musculus

<220>
<221> SITE
<222> (1)...(6)
<223> Xaa = Any Amino Acid

<400> 6
Val Gln Asn Ser Xaa Asp
1 5

<210> 7
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> An artificial peptide

<400> 7
Cys Arg Pro Gly Gln Glu Leu Thr Lys Ser Gly Tyr
1 5 10

<210> 8
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> A conserved pattern

<221> SITE
<222> (1)...(24)
<223> Xaa = Any Amino Acid

<400> 8
Cys Xaa Xaa Cys Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys Xaa Xaa
 1   5   10   15
Xaa His Xaa Xaa Xaa Cys Xaa Cys
            20

<210> 9
<211> 4
<212> PRT
<213> Mus musculus

<400> 9
Cys Arg Cys Pro
 1

<210> 10
<211> 4
<212> PRT
<213> Artificial Sequence

<220>
<223> A consensus sequence

<221> SITE
<222> (1)...(4)
<223> Xaa = Any Amino Acid

<400> 10
Cys Xaa Cys Pro
 1

<210> 11
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> A primer

<400> 11
acctcgaggt cctgtgcatg tgaca   25

<210> 12
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> A primer

<400> 12

atgaattctt actgcaggag tgccc 25

<210> 13
<211> 11
<212> PRT
<213> Mus musculus

<400> 13
Cys Arg Pro Gly Gln Glu Leu Thr Lys Gln Gly
1 5 10